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####ÿ□#ÿÿd#########d#########2##□##Ê÷ýv
##ÿÿ ###ÿÿ#####ÿ□#ÿÿd#########d#########m###General ConceptUse distant
supernovas as □standard candles□ to measure their distances and regression
speeds#
```

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#
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####ÿ□#ÿÿd#########d#########2##□##Ê÷-üv
##ÿÿ####ÿÿ#####ÿ□#ÿÿd#########d#########¹###Tools of DeterminationType Ia
SupernovaUse □z□ valuesPercent increase in wavelength due to redshift from
regression speedRedshift translates to distance based on □Hubble□s Constant□o
```

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####ÿ□#ÿÿd#########d#########2##□##Ê÷-üv
c#ÿÿ####ÿÿ#####ÿ□#ÿÿd#########d#########l###Measuring Distance with RedshiftD =
V / HoRedshift to determine velocityHubble□s Constant givenApprox. 70,000-35,000
mph/mly□In other words, a galaxy that is 1 million light years away from us will
appear to recede from us at a speed of 35,000 - 70,000 miles per hour□
-- James Cornell, Bubbles, voids and bumps in time:  the new cosmology, xi
```

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#################0##########################ÿ□#ÿÿd#########d#########2##□##Ê÷-üv
##ÿÿ####ÿÿ#####ÿ□#ÿÿd#########d#########þ###UNIX based system as operating
systemComparable to □DOS□On □Sun station□ at observatoryUse Telenet to remote
access University of Berkeley computer systemA computer named □panisse.lbl.gov□
Program written in IDLComputer language comparable to Pascal
```

```
#################0##########################ÿ#ÿÿd#########d#########2####Ê÷-üv
##ÿÿ####ÿÿ#####ÿ#ÿÿd#########d#########¤###Computer program Created by Dr.
Shane M. BurnsLngbase.proExample of codew = where (lyear lt 0)if w(0) ne -1
then lyear(w) = lyear + 1w = where (lmonth gt 2)
```

#################0##########################ÿ□#ÿÿd#########d#########2##□##Ê÷-üv
##ÿÿ####ÿÿ#####ÿ□#ÿÿd#########d#########□###Use IDL program to search database
of images for possible Type Ia supernovaRequirementsOverlap by more than 50%More
than 1 year apart

```
################0#########################ÿ#ÿÿd#########d#########2####Ê÷-
ü###ÿÿ####ÿÿ#####ÿ#ÿÿd#########d#########k###Supernovas used to date
Poster presented at the American Astronomical Society January 1996 Meeting#
```

#################0##########################ÿ□#ÿÿd#########d#########2##□##Ê÷}ýv
##ÿÿ####ÿÿ#####ÿ□#ÿÿd#########d#########□###Active Galactic NucleiDue to small number of supernova discoveredCompletely separate and unique project to study attributes of this phenomenon

```
# ######### #####,########### ######### ####ÿ□###d#########d#########2##□##Ê÷-üv
##ÿÿ####ÿÿ#####ÿ□#ÿÿd#########d#########R###Click to edit Master text styles
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